

## Contents

Addey, C. V. P., s. Wilde, C. J.	
Akers, R. M., Lactation physiology: a ruminant animal perspective . . . . .	96
Bartnicki-Garcia, S., s. Lending, C. R.	
Bartnik, E., Hejnowicz, Z., Sievers, A., Shuttle-like movements of Golgi vesicles in the tip of growing <i>Chara</i> rhizoids . . .	1
Bennett, C. N., s. Wilde, C. J.	
Berg, R. H., Cellulose and xylans in the interface capsule in symbiotic cells of actinorhizae . . . . .	35
Bissell, Mina J., s. Howlett, A. R.	
Blatchford, D. R., s. Wilde, C. J.	
Bracker, C. E., s. Lending, C. R.	
Eckard, K. J., s. Sanders, L. C.	
Farrell, H. M., Jr., Thompson, M. P., $\beta$ -Lactoglobulin and $\alpha$ -lactalbumin as potential modulators of mammary cellular activity. A $\text{Ca}^{2+}$ -responsive model system using acid phosphoprotein phosphatases . . . . .	157
Fennesse, P., s. Neville, M. C.	
Hartmann, E., s. Schwuchow, J.	
Hay, W. W., Jr., s. Neville, M. C.	
Hejnowicz, Z., s. Bartnik, E.	
Howlett, A. R., Bissell, Mina J., Regulation of mammary epithelial cell function: a role for stromal and basement matrices . . . . .	85
Kanno, C., Secretory membranes of the lactating mammary gland . . . . .	184
Keenan, T. W., Stuart Patton—on the occasion of his 70th birthday . . . . .	75
— s. Zaczek, M.	
Knight, C. H., s. Wilde, C. J.	
Kuhn, N. J., s. Leong, W. S.	
Leong, W. S., Navaratnam, Naveenan, Stankiewicz, Margaret J., Wallace, A. V., Ward, S., Kuhn, N. J., Subcellular compartmentation in the synthesis of the milk sugars lactose and $\alpha$ -2,3-sialyllactose . . . . .	144
Lending, C. R., Lippmann, E., Bracker, C. E., Bartnicki-Garcia, S., An efficient preparative isopycnic flotation method for the isolation of chitosomes . . . . .	16
Lindblad, P., Sellstedt, Anita, Occurrence and localization of an uptake hydrogenase in the filamentous heterocystous cyanobacterium <i>Nostoc</i> PCC 73102 . . . . .	9
Lippmann, E., s. Lending, C. R.	
Loizzi, R. F., Shao, DeRen, Tubulin increases with lactation in rat and guinea pig mammary alveolar cells. Fluorescence and EM immunogold localization . . . . .	129
Lord, E. M., s. Sanders, L. C.	
Mather, I. H., s. Neira, L. M.	
Medina, D., Smith, G. H., In search of mammary gland stem cells . . . . .	77
Navaratnam, Naveenan, s. Leong, W. S.	
Neira, L. M., Mather, I. H., Biochemical and immunological comparison of bovine butyrophilin with a butyrophilin-like glycoprotein in guinea pig milk-fat-globule membrane. Evidence that the guinea pig protein is developmentally regulated and specifically expressed in lactating mammary tissue . . . . .	168
Neville, M. C., Hay, W. W., Jr., Fennessey, P., Physiological significance of the concentration of human milk glucose . . . . .	118
Peaker, M., s. Wilde, C. J.	
Sack, F. D., s. Schwuchow, J.	
Sanders, L. C., Eckard, K. J., Lord, E. M., Divergent pollination systems in the cleistogamous species, <i>Collomia grandiflora</i> (Polemoniaceae) . . . . .	26
Schwuchow, J., Sack, F. D., Hartmann, E., Microtubule distribution in gravitropic protonemata of the moss <i>Ceratodon</i> . . . . .	60
Seagull, R. W., The effects of microtubule and microfilament disrupting agents on cytoskeletal arrays and wall deposition in developing cotton fibers . . . . .	44
Sellstedt, Anita, s. Lindblad, P.	
Shao, DeRen, s. Loizzi, R. F.	
Sievers, A., s. Bartnik, E.	
Smith, G. H., s. Medina, D.	
Stankiewicz, Margaret J., s. Leong, W. S.	
Thompson, M. P., s. Farrell, H. M., Jr.	
Travers, M., s. Wilde, C. J.	
Wallace, A. V., s. Leong, W. S.	
Ward, S., s. Leong, W. S.	
Wilde, C. J., Knight, C. H., Addey, C. V. P., Blatchford, D. R., Travers, M., Bennett, C. N., Peaker, M., Autocrine regulation of mammary cell differentiation . . . . .	112
Zaczek, M., Keenan, T. W., Morphological evidence for an endoplasmic reticulum origin of milk lipid globules obtained using lipid-selective staining procedures . . . . .	179
 <i>Rapid Communication</i>	
Sarafis, V., Rumpel, H., Pope, J., Kuhn, W., Non-invasive histochemistry of plant materials by magnetic resonance microscopy . . . . .	70